## **CLAIMS**

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- A light emission device comprising:
- a lead frame comprising a first lead frame segment and a second lead frame segment;
  - a light source coupled to said first lead frame segment;
  - a wire bond coupled to said light source and coupled to said second lead frame segment; and
- an epoxy cast encasing said light source, said wire bond, and a portion of said lead frame.
  - 2. The light emission device as recited in Claim 1 wherein said first lead frame segment comprises a first recess such that said light source resides at least partially within said first recess.
  - 3. The light emission device as recited in Claim 1 wherein said first lead frame segment comprises a second recess such that said epoxy cast is anchored to said first lead frame segment.
  - 4. The light emission device as recited in Claim 2 wherein said first recess is a reflector cup.
- 5. The light emission device as recited in Claim 1 wherein said epoxy cast comprises a shaped epoxy portion.
  - 6. The light emission device as recited in Claim 1 wherein said lead frame comprises plating.
- The light emission device as recited in Claim 1 wherein said

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epoxy cast comprises a color tinting.

- 8. The light emission device as recited in Claim 1 wherein said epoxy cast is operable to diffuse light from said light source.
- 9. The light emission device as recited in Claim 1 further comprising a second wire bond coupled to said first lead frame segment and said light source.
- 10 10. The light emission device as recited in Claim 5 wherein said shaped epoxy portion is a dome shape.
  - 11. The light emission device as recited in Claim 1 wherein said light source is a light emitting diode die.
  - 12. A method for generating a light emission device, said method comprising:

coupling a light source to a first lead frame segment of a lead frame, said lead frame further comprising a second lead frame segment;

coupling a wire bond to said light source and said second lead frame segment; and

encasing said light source, said wire bond, and a portion of said lead frame in an epoxy cast.

- 13. The method as recited in Claim 12 wherein said first lead frame segment comprises a first recess such that said light source resides at least partially within said first recess.
- 14. The method as recited in Claim 13 wherein said first recess is30 a reflector cup.

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- 15. The method as recited in Claim 12 wherein said encasing comprises forming a shaped portion of said epoxy cast.
- 5 16. The method as recited in Claim 12 further comprising dying said epoxy cast with a color tinting.
  - 17. The method as recited in Claim 12 further comprising diffusing at least a portion of said translucent epoxy cast.

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- 18. The method as recited in Claim 12 further comprising coupling a second wire bond to said first lead frame segment and said light source.
- 19. The method as recited in Claim 12 wherein said light source15 is a light emitting diode die.
  - 20. A light emission device comprising:

a lead frame comprising a first lead frame segment and a second lead frame segment;

a light emitting diode coupled to said first lead frame segment, said first lead frame segment comprising a first recess such that said light source resides at least partially within said first recess;

a wire bond coupled to said light source and coupled to said second lead frame segment; and

an epoxy cast encasing said light emitting diode, said wire bond, and a portion of said lead frame, said epoxy cast comprising a shaped epoxy portion.

21. The light emission device as recited in Claim 20 wherein said 30 first lead frame segment comprises a second recess such that said epoxy

cast is anchored to said first lead frame segment.

22. The light emission device as recited in Claim 20 wherein said first recess is a reflector cup.

23. The light emission device as recited in Claim 20 wherein said shaped epoxy portion is incident to said light source.

- 24. The light emission device as recited in Claim 20 wherein said10 lead frame comprises plating.
  - 25. The light emission device as recited in Claim 20 wherein said epoxy cast comprises a color tinting.
- 15 26. The light emission device as recited in Claim 20 wherein said epoxy cast is operable to diffuse light from said light source.
- 27. The light emission device as recited in Claim 20 further comprising a second wire bond coupled to said first lead frame segment
  20 and said light source.
  - 28. The light emission device as recited in Claim 20 wherein said shaped epoxy portion is a dome shape.

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